

PHENIX WEEKLY PLANNING



6/4/2009
Don Lynch

Next Maintenance Access Day - June 10 (Last Maintenance Access Day before end of run?)

- RPC3N Measurements
- Other work?

Anyone wishing to access the Tunnel either north or south of the IR should inform the RC at least 2 days ahead of time to coordinate with C-A-D. If you require technician assistance inform me as well.

Shutdown '09 Major tasks (expect 5 month shutdown):

- EOR party June 19/2009 shutdown Begins July 4
- End run, remove wall, MuID collars down, EC to AH (3 weeks)
- RPC Factory Operations (in progress and continuing beyond Shutdown '09)
- RPC Station 3 North (entire shutdown)
- Install Station 1 South scaffolding (1 week)
- Install Station 2/3 scaffolding (2 weeks)
- Install stations 1, 2 and 3 south MuTrigger FEE's (12 weeks)
- MuTr decapacitations: station 3 south (3 weeks)
- PC1 East repair (4 weeks)
- Mechanical/Electrical Plumbing installation of (4) new DCM racks
- Add Ar Dewar and expand gas pad to add storage (12 weeks)
- Prep for future upgrades/existing equipment maintenance & Repair (as necessary)

Shutdown Prep Now to June 28

Task	Complete By
RPC Installation design parts & Tools	June 4
MuTrigger FEE Cable Management plan	June 15
RPC3 N Cable and Piping relocation Plan	June 15
RPC Electronics Rack Prep	June 20
RPC Installation parts and Tools Fabrication	June 28
MuTrigger FEE Parts and Tools ordering	June 28
RPC Factory Tools complete and commissioned	June 28

TECHNICAL SUPPORT NOON

End of Run, Start of Shutdown

TECHNICAL SUPPORT NOON

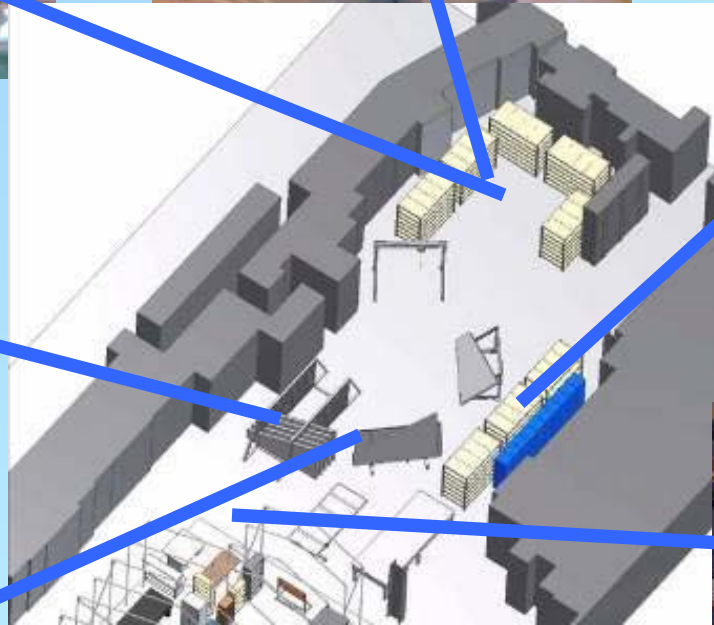
Task	Completion Date
• End of Run Party	6/19
• End of Run 9	7/4
• Flammable Gas Purge	7/7
• Open Wall and Disassemble	7/9
• MuID Collar Removal	7/15
• Move MMS South	7/17
• Test RMC Higher comm speed on EC before disconnecting	7/22
• Disconnect EC and move to AH	7/24
• Move MuID Collars to AH	7/27
• Install IR floor plates, rolling cart & manlift in IR	7/29
• Reconnect EC for shutdown mode	7/31
• Remove East/West vertical & Upper Bias MMS lampshades	7/31

- Gap and Module assembly and testing (continues through shutdown) in-progress
- Gap and Module Storage with humidity control (need to get permanent elec., 2nd humidity controller & covers for last 3 storage racks) Nearly complete
- Tilting transport Table Nearly complete
- Burn in test stand (Bike rack section) In Progress
- Burn-in test stand gas system and controls (ready for 1st half octant) 5/29
- Assembly of half-octants for station 3 north 6/1-9/1

RPC Factory

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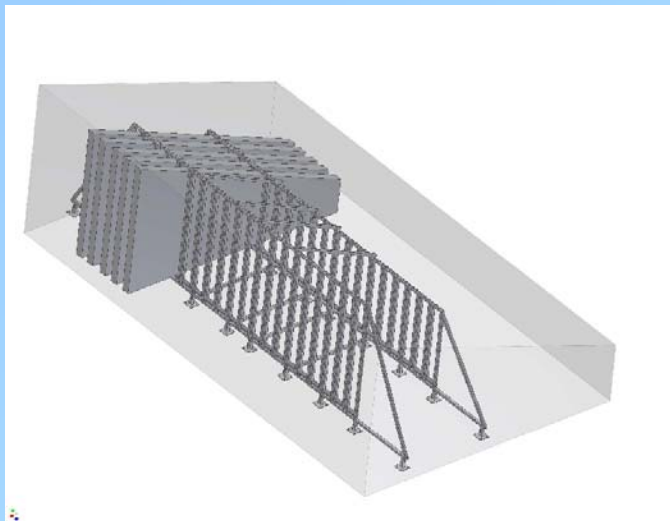
TECHNICAL SUPPORT ROOM



6/4/2009

RPC Factory Burn In Test Station For Octant and Half Octant Burn-in Tests

Assembly in Progress



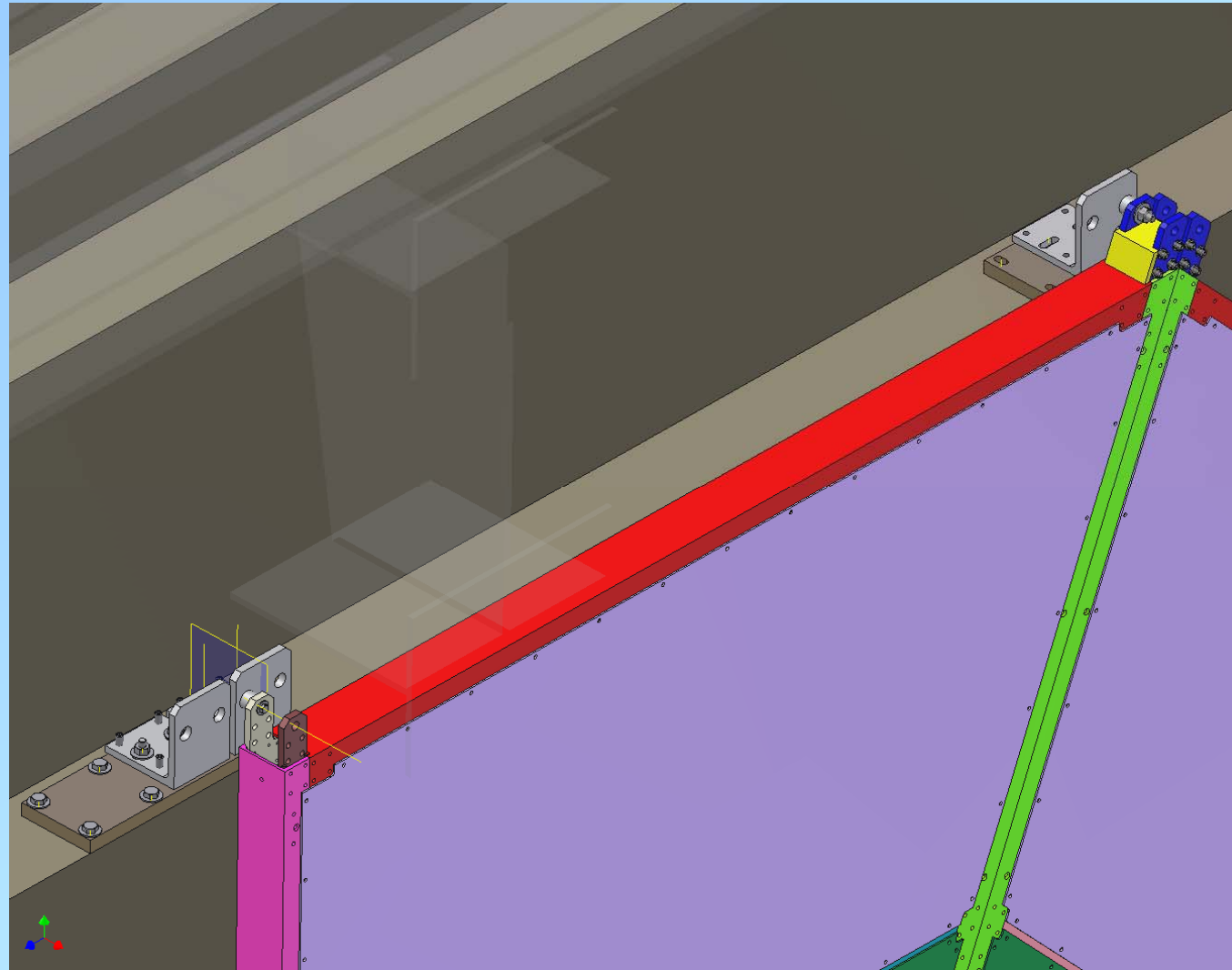


Gaps and modules for RPC3 N are currently being assembled and tested.

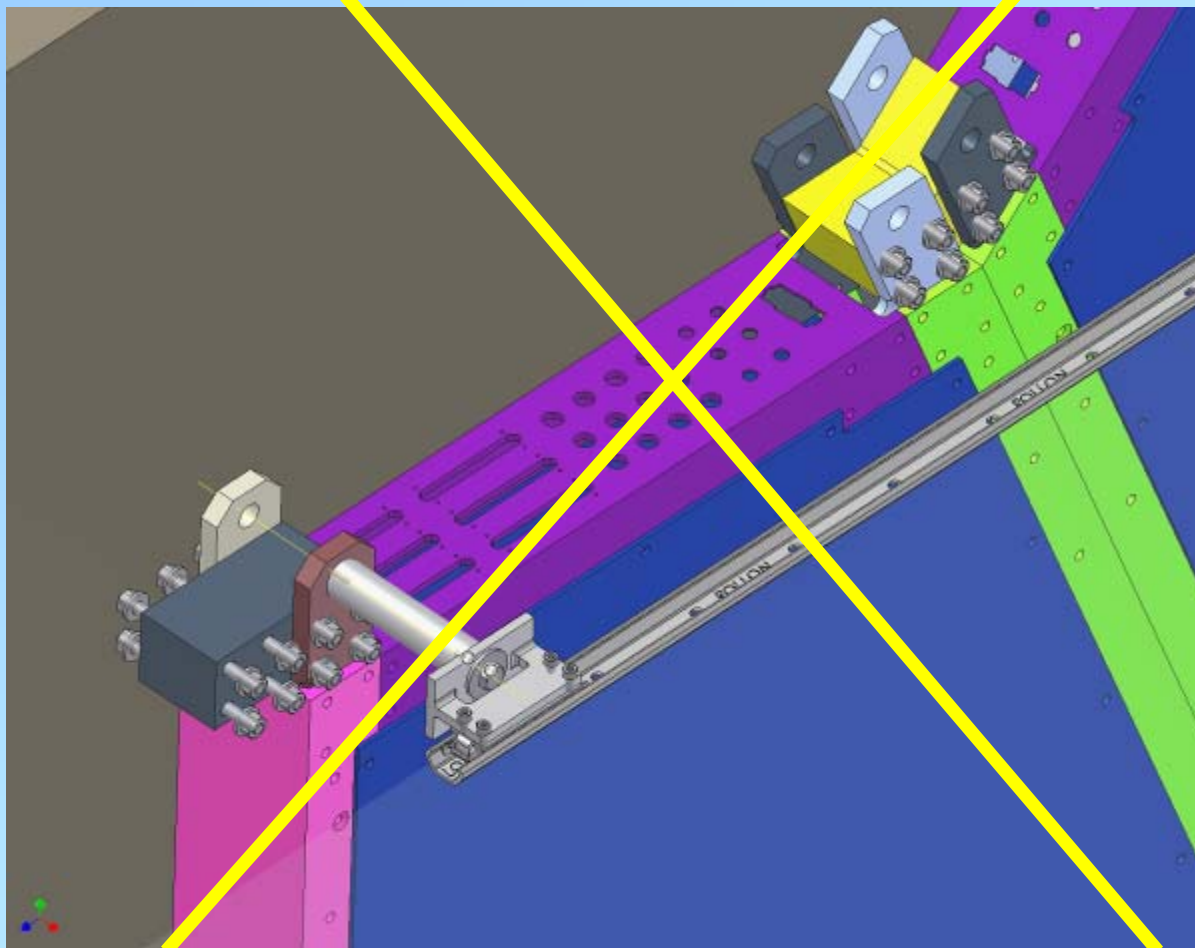
Expect $\frac{1}{2}$ octant structural components by ~ end of next week

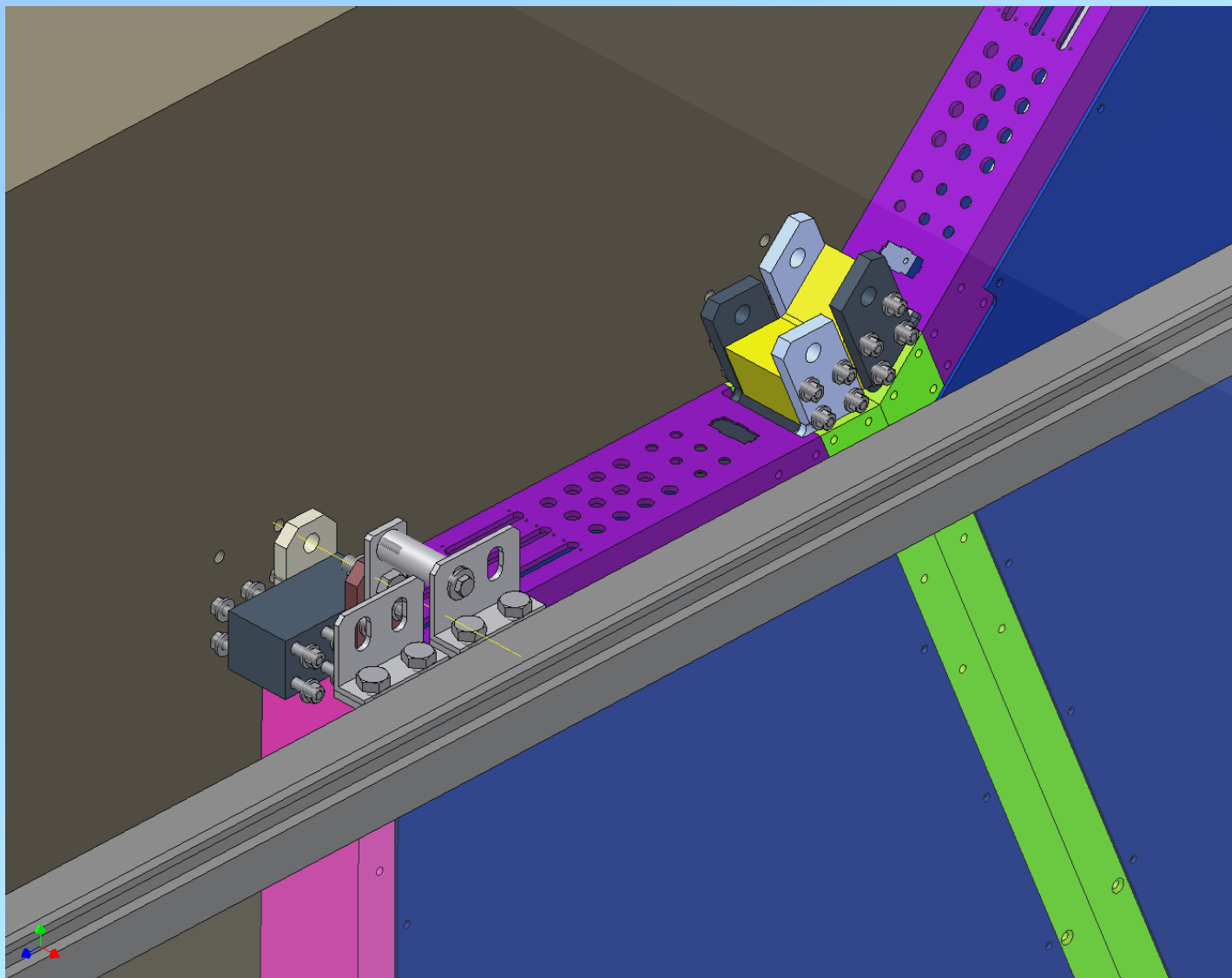
RPC3 North Design Priority

1. Base Translating Support - Design done, drawings at CS
2. Interconnecting blocks - Design done, drawings at CS
3. Central translating clamp - Design Done, drawings
East and West X-Y translating being checked
clamps & tie-rods
4. Installation drawing for 7 unistrut guide rails & 2 vertical guide rails - Design Done
5. MuID steel drilled hole pattern - Design Done
Upper support brackets (4)
with E/W & U/D adjustment
6. Base Locking/Installation Fixture - Design started ~ 6/12
7. Lifting Fixture Drawings
8. Survey Fixture - 6/12
9. Revise Illustrations - 6/19
10. Adjustable cradle - 7/10

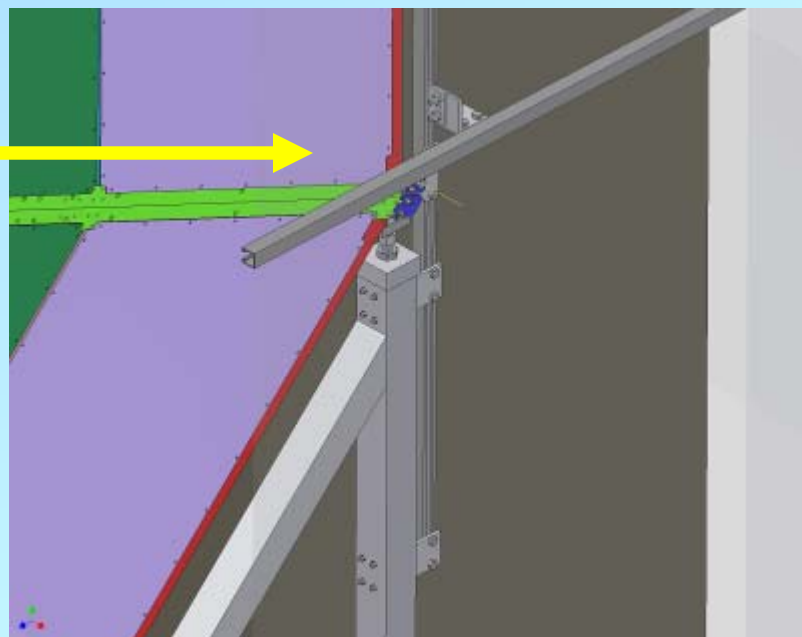
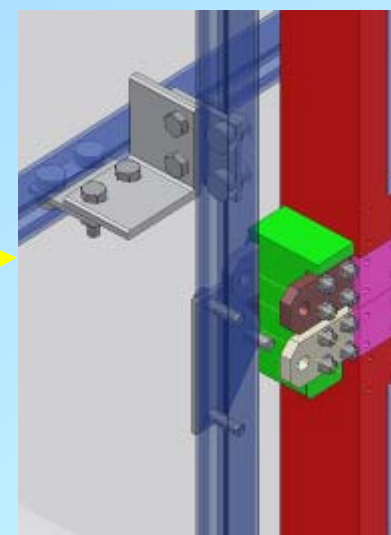
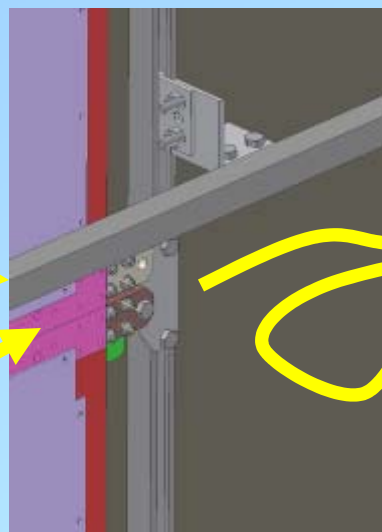
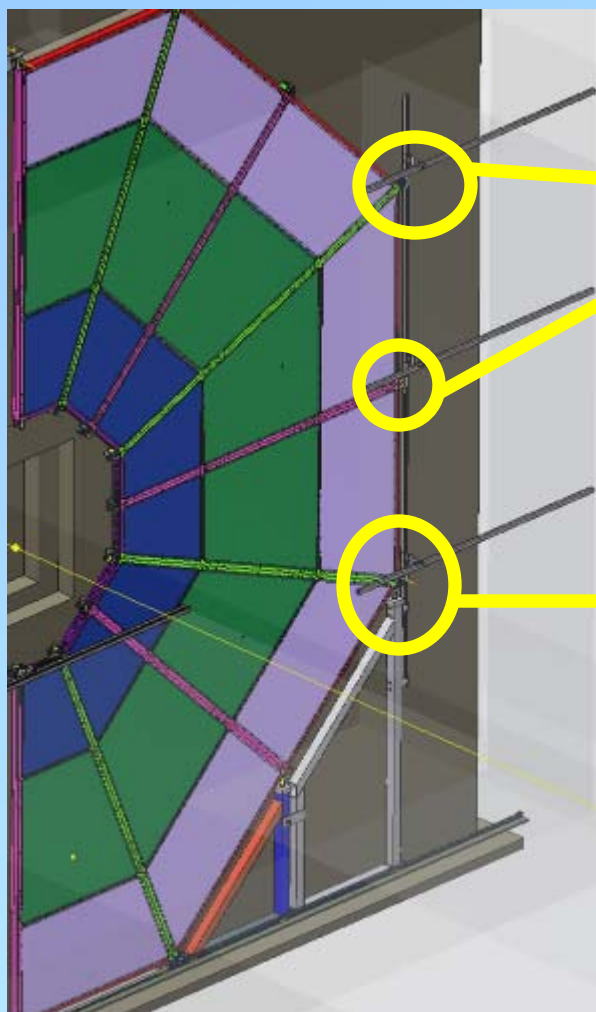


These
parts are
now
detailed



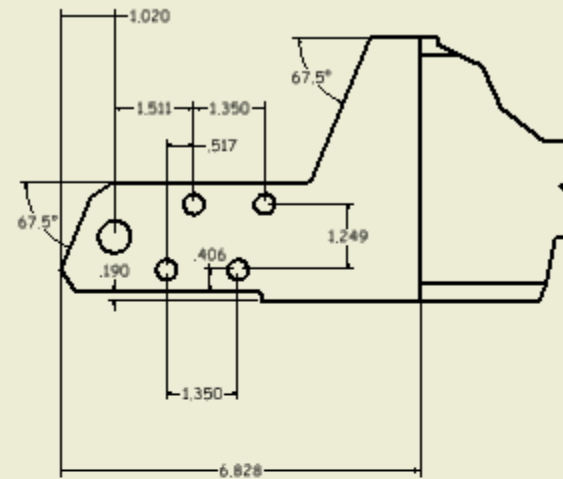
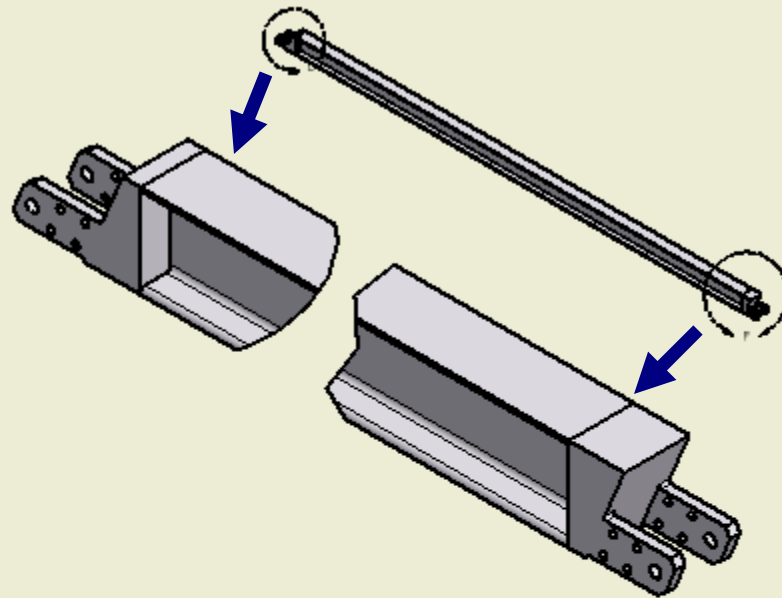


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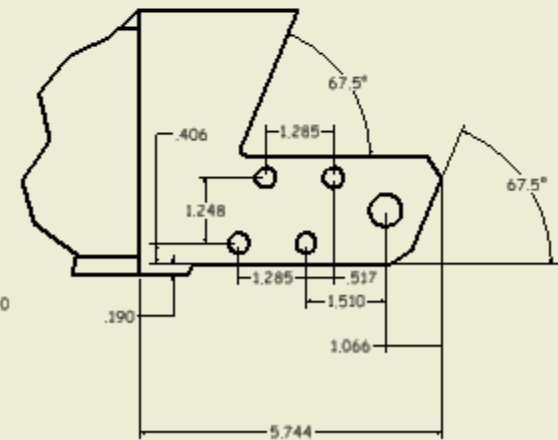
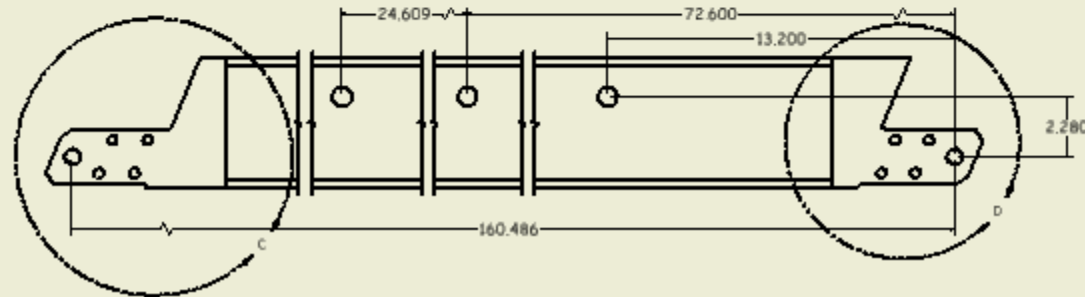


These parts are also now detailed

Long Side Lifting Fixture

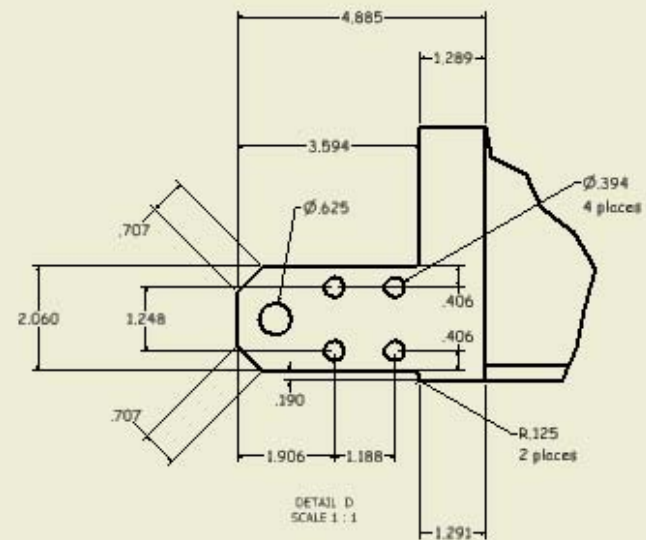
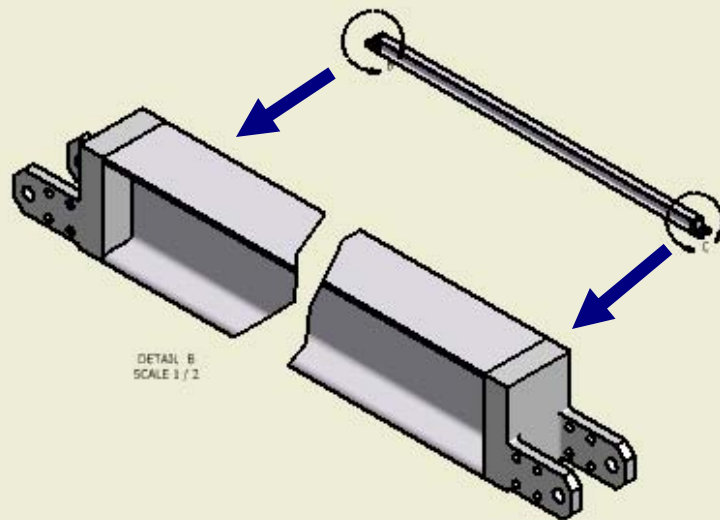


DETAIL C
SCALE 1 : 1

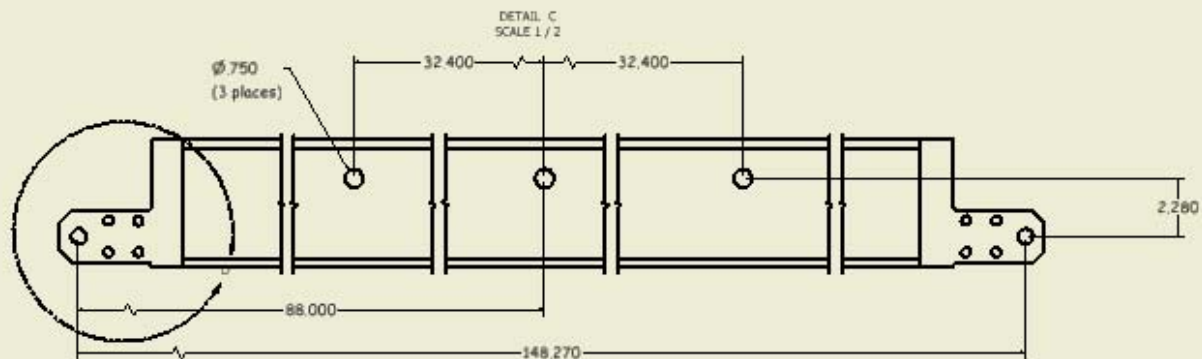


DETAIL D
SCALE 1 : 1

Short Side Lifting Fixture



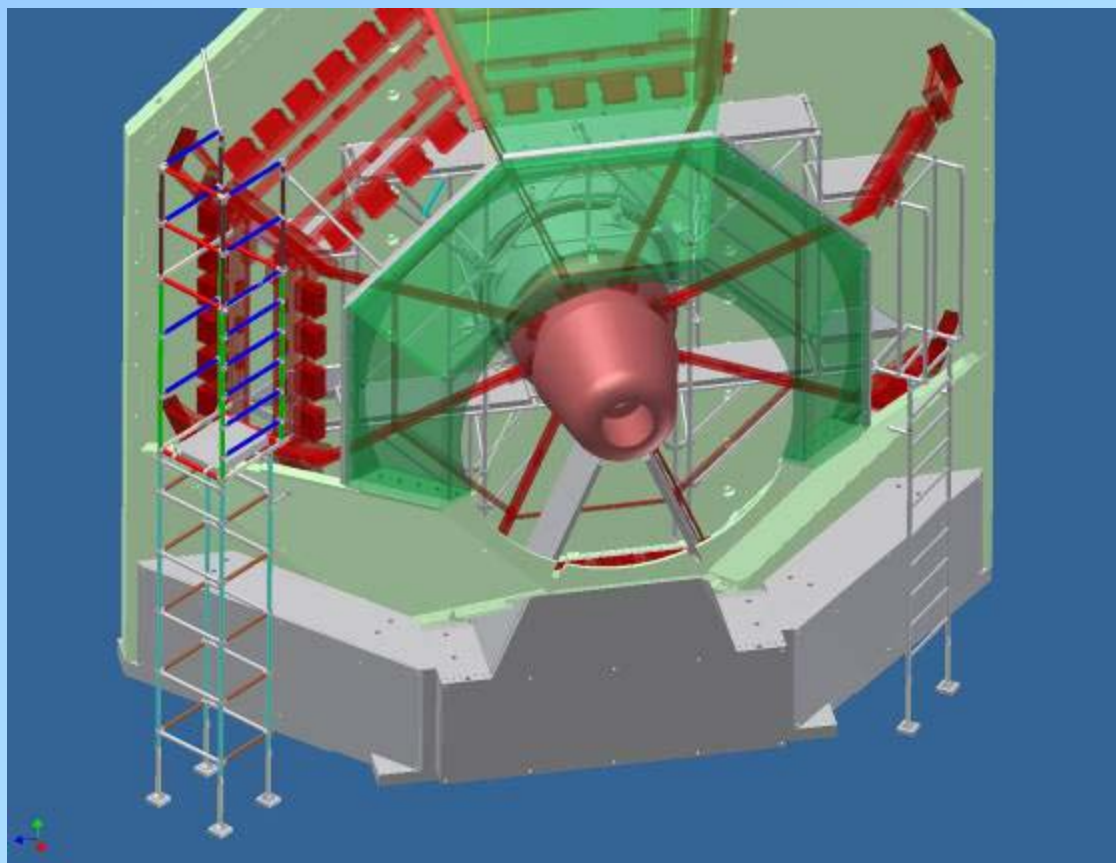
Note: Dimensions of opposite bracket are mirror image of above



RPC3 North Installation Schedule

Task	Completion Date
Installation Concept Finalized	Apr. 24
Half-Octant Brackets, Connecting Blocks, under detector translating support design	Apr. 30
Installation Fixturing and Tooling Design	May 15
Redesign crystal palace/IR Gas Barrier	June 12
End of Run 9	July 4
Fixturing/Tooling, Brackets/Block/support Fabrication	June 30
Move Shielding/Remove Crystal Palace	June 29-July31
Move cable trays and piping in gap 5	June 29-July 31
Simulated (practice) installation with new fixturing/ tooling	July 13-July 31
Install, level & survey support structure	Aug. 3 - Aug 14
Half Octant Testing and Assembly Complete (1 st half Octant ready by Aug.17, 16 th by Sep.18)	Aug. 17- Sep. 18
Mechanical Install Align & survey RPC3 N	Aug 17 - Sep. 30
Install 3 elect. Racks, all cables & gas system	Oct. 1 - Oct. 30
Commissioning	Nov. 1 - Nov. 30
Install new crystal palace/IR Gas Barrier & Shielding	Nov. 1 - Nov. 30
Start Run 10	Dec. 1

Task	Completion Date
• Install Station 1 South Scaffold (carpenters)	7/31
• Install Station 1 cable management	8/14
• Install station 2/3 scaffolding (Techs)	8/14
• Install station 1 FEE's & Electronics	8/28
• Install station 2 & 3 cable mngment	8/28
• Station 1 plumbing	9/11
• Install station 2/3 FEE's & electronics	9/25
• Station 2/3 plumbing	10/9

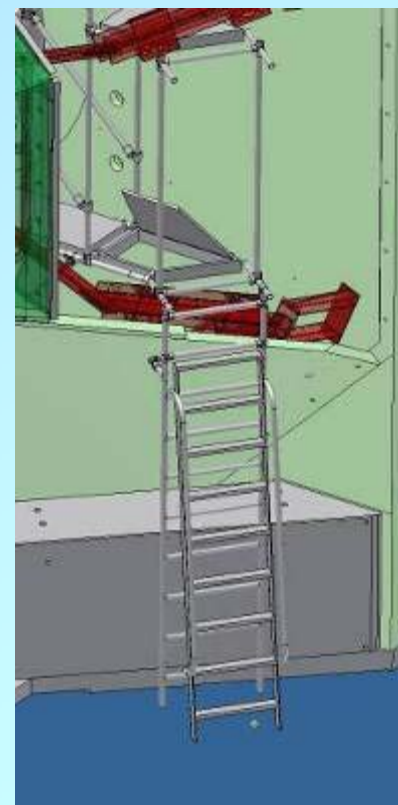


Concept approved at
C-A Design Review

Met with Donna Dowling to discuss
Bargaining Unit negotiations

MMS scaffolding

Designed for MuTr
installation. Approved in
2000 for use. Stress
analysis done for worst
case. Current design has
minor modifications.



MuTr Decapacitations

Task	Completion Date
Station 2/3 Decaps	8/14-8/28
Testing/verification	9/4

PC1 East Repair

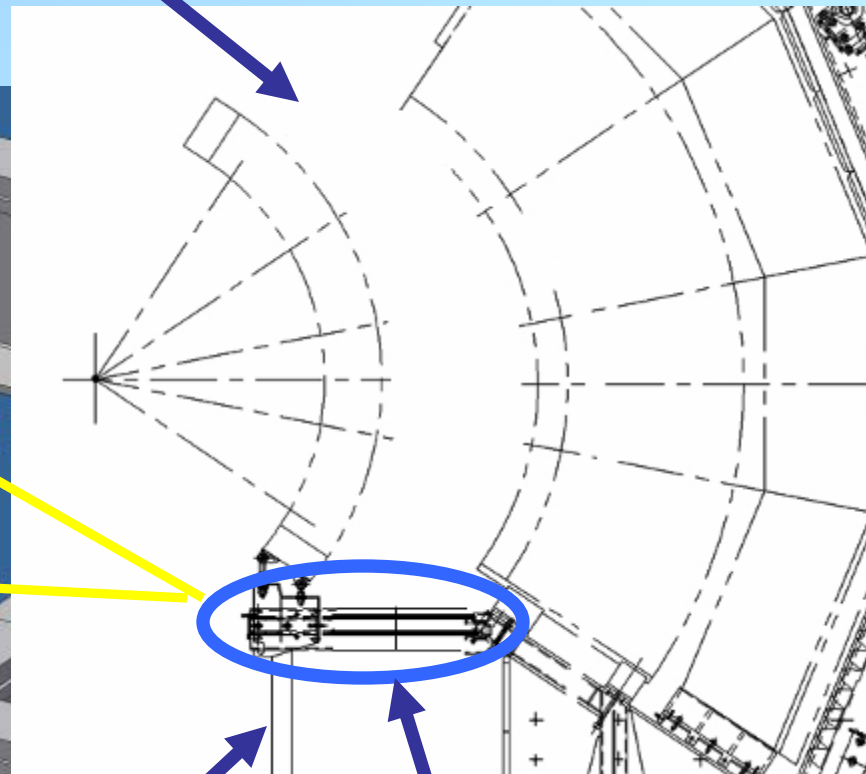
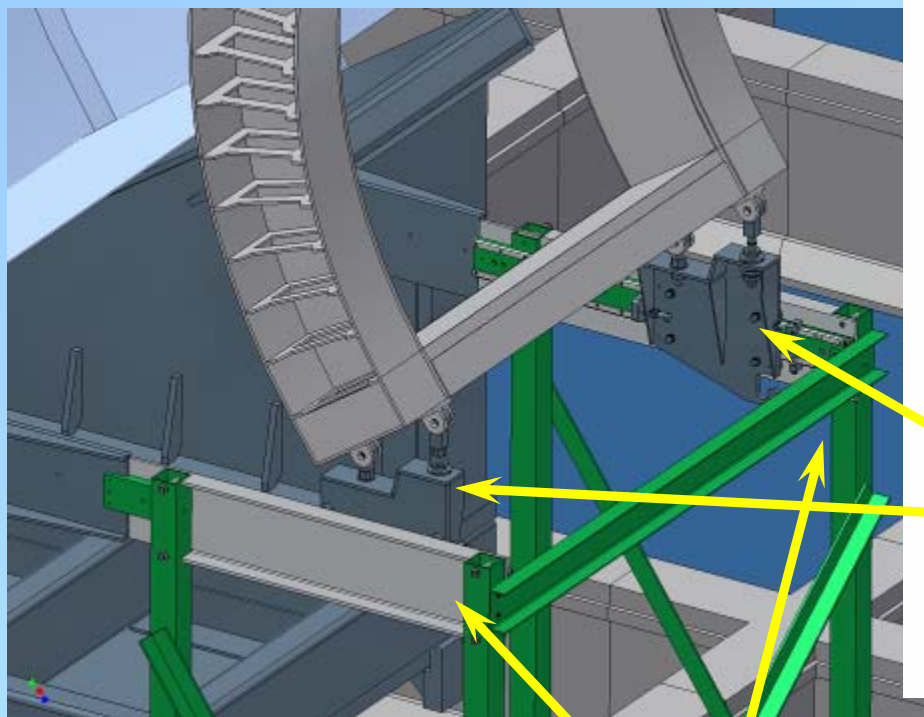
TECHNICAL SUPPORT NOON

Task	Completion Date
• Design Repair support fixture	Done
• Review and approval	Done
• Fabrication	7/1 (order placed)
• Prep for Summer Sunday	8/7
• Restore order after summer Sunday	8/12
• Install support fixture	8/14
• Remove cables and plumbing	8/28
• Roll out DC/PC1	9/4
• Replace failed PC1	9/11
• Roll DC/PC1 in	9/18
• Restore cables and plumbing	9/25
• Test/commissioning	10/2

PC1 East Repair Fixturing Design

Repairs to be performed during '09 Shutdown

Access to PC1 is adequate to remove and replace module



Quote Rec'd from CS

New Column Supports Under railway extensions

New Railway extensions will allow DC to be pulled out ~ 3 feet more

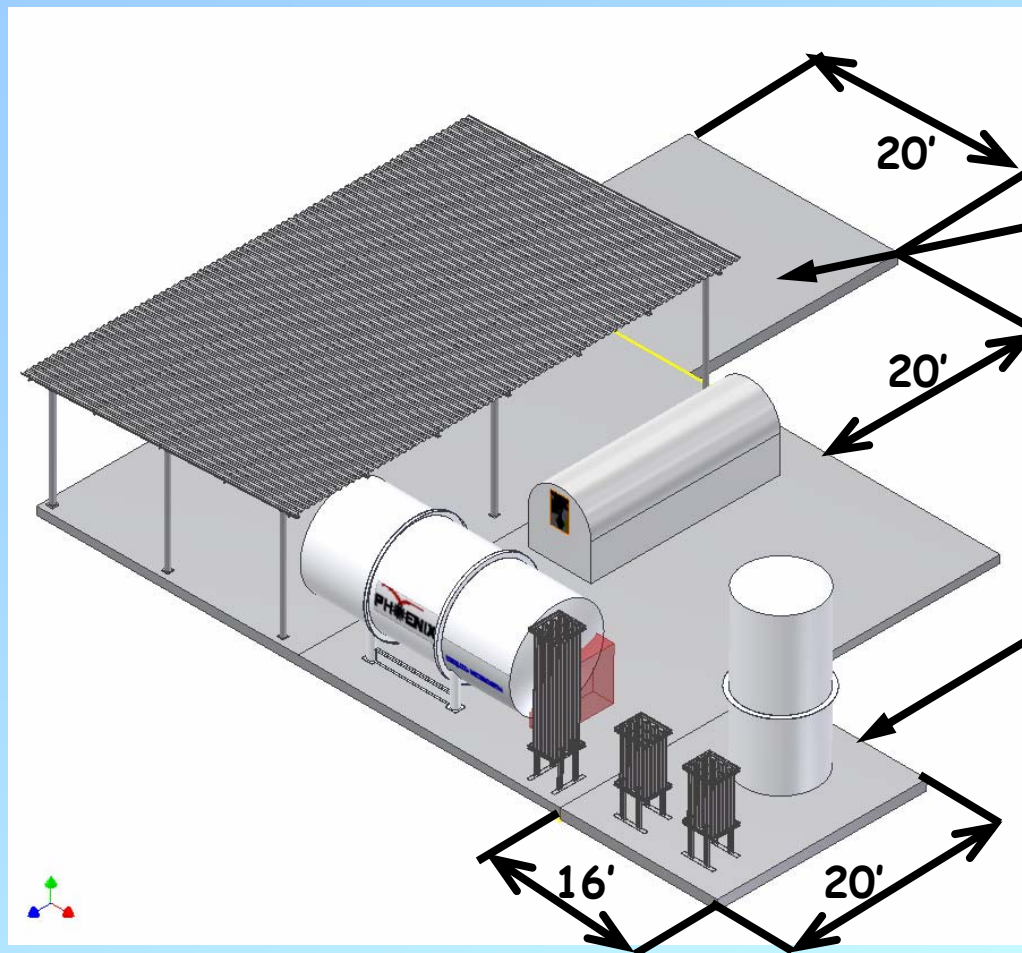
Task

Completion Date

- Proposal Done
- Review and Approval 5/1
- Design 6/1
- Site Preparation 7/1
- Install Empties racks 8/1
- Install Ar Dewar 9/1
- Test and Commission 10/1

New Argon Dewar

TECHNICAL SUPPORT NOOS



New storage pad for empty gas cylinders, 20'x 20', 9" min thick. reinforced concrete

New Argon Dewar Pad, 16' x 20', 12" minimum thickness, reinforced concrete.

Met with Dave Phillips to walk thru the plan

New DCM Rack Plumbing

(Not Scheduled Yet)



4 new DCM racks need cooling water plumbing

Upgrades Support:

New Beampipe sections (non-Be)
(Sent Drawings to Mike Mapes)

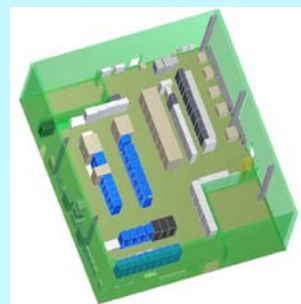
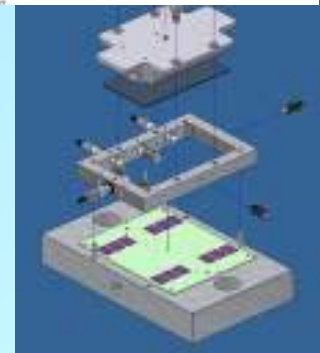
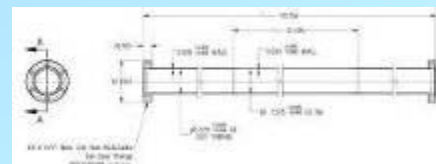
New Beampipe supports

FOCAL prototype design support

VTX fabrication tooling design

VTX installation design

FVTX design/eng'g support



Summer Sunday Pre/Post setup/tear down

TBD Existing Detector Maint & Repairs

Maintenance & Overhead Tasks

Rack Room Reorganization

C-A-D AC, Water System, Electrical system work which may impact shutdown schedule: *Tasks, schedules, priorities TBD*

End Of Run Party

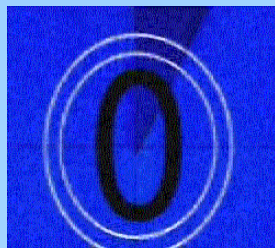
Moved to June 19

- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall.
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- Improved Rack Room AC performance (This item has been addressed time and again but unsatisfactorily. Currently the AC fails periodically and is repaired only to fail again. On-condition maintenance is not adequate...an engineered solution is needed.)
- Icy conditions at mixing house north stairs
- Mixing House loose board ?



1. VTX/FVTX Interim safety review next week (6/11)
2. Radiation badge requirements for north tunnel (RPC3N installation):
 - Probably the same as last year, Paul Berg to do rad survey
 - Need a list of RPC group personnel who need unescorted access to the tunnel. Others can get escorted access as nec.
 - Carter, Don, Steve, (good) Sal, Frank, Mike R. & Paul have rad worker 1 training and permanent badges, Kenny and John T. will get temp badges (only need current CA Access training)
 - ODH training not needed during shutdown.
3. Vacation Carry over reminder - Vacation carry over must be reduced to 20 days by the end of september. Techs and engineers please let me know when you plan to take vacation this summer.

Where To Find PHENIX Engineering Info

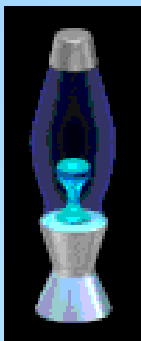


Shutdown 2009 starts one month from today! (déjà vu)

The countdown is on.

The calendar is filling up

Any requests for technical support need to be planned.



Take a number

25349

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

